

S/133/62/000/006/009/015
A054/A127

AUTHORS: Muzalevskiy, G. G., Grishkov, A. I.

TITLE: At the Tsentral'nyy nauchno-issledovatel'skiy institut Chernoy metallurgii im. I. P. Bardin (Central Scientific Research Institute of Ferrous Metallurgy im. I. P. Bardin)

PERIODICAL: Stal', no. 6, 1962, 541 - 542

TEXT: The metal pressure on the rolls and the torques on the upper and lower spindles of the 1100 blooming mill were investigated by means of wire converters fixed to the supports of the stand and spindle bodies. A current collector designed by the TsNIChM recorded for a considerable period the torques on both blooming spindles simultaneously. The oscillographic records were made during the rolling of 144 ingots of 19 steel grades. For some of the grades the following results were obtained:

Card 1/2

At the Tsentral'nyy...

3/133/62/000/000/000/000
A058/A127

Steel grade	Rail steel	Carbon steel	35FC (35GS)	60C2 (60S2)	1X18H9T (1Kh18N9T)	Double-layer	3H4... (E1406)	3H4... (E1171)
Metal pressure on the rolls, t	500-1050	610-1290	600-1200	800-1380	500-1760	790-1730	-	-

Total rolling moment, tm

97-177	110-235	102-195	100-192	-	77-188	74-147	40-162
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The ratio between the rolling moment of the lower and upper rolls varies within a wide range. For rail steel and Cr.3kn (St.3kp) blooms the ratio of moments on the barrel is 3 in the first 4 - 6 passes, from the fifth pass for the St.3kp blooms and the seventh pass for rail steel in the grooves, it varies between 1.25 and 1.75. The maximum variations in the moment ratios (up to 5%) are obtained in rolling E1171 and double layer slabs. In some cases the rolling moment on the upper roll was zero or negative; sometimes it was less on the lower roll than on the upper. By recording the torques simultaneously on the upper and lower spindles, the pattern of metal pressure on the rolls could be ascertained. Tests were also carried out regarding the operation of the main motor and auxiliary equipment, supplying data of motor load, rolling cycles, times of breaks, etc. Card 2/2

MUZALEVSKIY, O.G.

Distribution of the speed of deformation in the reduction zone
during rolling. Stal' 22 no.7:628-632 JI '62. (MIRA 15:7)
(Rolling (Metalwork))
(Deformations (Mechanics))

MUZALEVSKIY, O.G.

Principal directions and methods of investigation in establishing
the technological parameters for the automation of rolling mills.
[Sbor. trud.] TSNIICHM no.29:103-112 '63. (MIRA 17:4)

MUZALEVSKIY, O.G.; RIVKIN, A.A.

Searching for the optimal operating conditions of the 800 rail
and structural steel mill. [Sbor. trud.] TSNIICHM no.29:128-137
'63. (MIRA 17:4)

MUZALEVSKIY, O.G., kand.tekhn.nauk

Correlation between longitudinal height and transverse deformation:
in the reduction zone during rolling. Stal' 24 no.7:624-628 J1 '64.
(MIRA 18:1)

MUZALEVSKIY, O.G., kand.tekhn.nauk; RYKALIN, A.A., inzh.

Developing technological parameters for the automation of
three-high rail and structural steel rolling mills. Stal'
23 no. 3:238-245 Mar '64. (MIRA 17:5)

GROSVAL'D, V.G.; NIKITIN, V.A.; MELNIKOVA, L.D.; GOLITSOVA, L.L.;
MOHAKHOVA, V.L.; FLOREIN, L.V.; MYKULI, L.A.

New developments in research on the use of the following methods:

(M. G. 10. 1)

MUZALEVSKIY, O.G., kand. tekhn. nauk; BUTSEV, V.V., inzh.

Effect of roll stoppage on the distribution of metal deformation
in the zone of reduction during rolling. Stal' 25 no. 8:828-
830 S '65. (MIRA 18:6)

1. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy
metallurgii.

NOVIKOV, V.; MATVEYEV, Yu.M.; ROZHINSKIY, M.B.; BATIST, A.I.; ICSHEL', G.;
KOROLEV, M.; IVITSEV, V.; ARONOV, I.; SVETLAKOV, V.; ZAYONCHIK,
L.Z.; RASPOPOV, I.V.; SERDYUKOV, G.V.; GRISHKOV, A.I.; MAYEYEV, I.F.;
DELLO, A.A.; SHUMNAYA, V.A., inzh.; SPIRYAGIN, L.P., inzh.; GRISHKOV,
A.I.; KARDONOV, B.A.; BURDIN, V.M., kand. tekhn. nauk; MOLGACHEV,
D.A., inzh.; MUZALEVSKIY, O.G.; RIVKIN, A.A.; KEYS, N.V.; KOMISSAROV,
A.I.

New developments in research. Stal' 25 no.8:842-845 3 '65.
(MIRA 18:9)

L 38913-00 EWT(d)/EWT(m)/EWP(v)/EWP(t)/ETI/EWP(k)/EWT(h)/EWP(1) IUP(c) 6
 ACC NR: AP6017639 JY/HY (N) SOURCE CODE: UR/0133/66/000/001/0050/005552

AUTHOR: Dobronravov, D. N.; Lyambakh, R. V.; Stupnikov, E. G.; Shishkinskiy, V. I.;
 Burdin, V. M.; Muzalevskiy, O. G.; Yevdokimov, A. S.; Yegorov, Ye. P.; Leont'yev,
 S. A.; Shesterkin, A. G.; Khusid, S. Ye.

ORG: Central Automation Laboratory (Tsentral'naya laboratoriya avtomatiki);
 TsNIICHM; Magnitogorsk Metallurgical Combine (Magnitogorskiy metallurgicheskiy
 kombinat)

TITLE: Experimental operation of an automatic system for controlling strip thickness
 on the 2500 continuous sheet mill

SOURCE: Stal', no. 1, 1966, 50-55

TOPIC TAGS: hot rolling, automatic control equipment, *steel*

ABSTRACT: An automatic control system was developed for regulating the thickness of
 steel strip, consisting of regulators of the gaps between the work rolls, and of a
 system stabilizing the tension of the strip between the stands. The automatic con-
 trol system yielded satisfactory performance data on the 2500 continuous hot-rolling
 mill, and for the majority of the strip profiles studied, decreased the longitudinal
 variation in thickness and maintained a more accurate nominal strip thickness than
 had been possible before. In the presence of the automatic control system, the
 strips are rolled with deviations of no more than ± 0.05 mm (with the exception of

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UDC: 621.771.23:65.011.56

L 38913-66

ACC NR: AP6017639

short rear portions of the strip, where the positive deviation reaches 0.1-0.15 mm). Without the automatic control system, the length of the strip ends thickened by 0.3-0.2 mm reaches 50-100 m. The decrease in the length of thickened portions of the strip and a more accurate control of nominal strip thickness result in a 1.5% average increase in strip length. Orig. art. has: 6 figures and 2 tables.

SUB CODE: 11,13/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 001

Card 2/2 *lll*

6(4)

06260

SOV/107-50-5-24/50

AUTHOR: Muzalevskiy, S. (Pavlodar)

TITLE: Station UL7FA Operating

PERIODICAL: Radio, 1959, Nr 6, pp 21-22 (USSR)

ABSTRACT: The author tells of Andrey Mikhelev's activities in operating his amateur radio station UL7FA in Pavlodar. Within two years, Mikhelev established telegraph communication with 125 oblast's of the USSR and 160 territories of the world, and telephone communication with 70 USSR oblast's and 80 countries.

Card 1/1

MUZALEVSKIY, V.I.

Automatic measurement of the moisture of rotary-cut veneer in a roller
dryer. Der. prom. 14 no.4:11-12 As '65. (MIRA 12:5)

POLEVOY, Viktor Vasil'yevich; MUZALEVSKIY, Vladimir Vasil'yevich;
RAPPOPORT, P.I., otv.red.; D'YAKOVA, G.B., red.izd-va;
MADELSKAYA, A.A., tekhn.red.; PROZOROVSKAYA, V.L., tekhn.red.

[Standard equipment for mine hoists; a handbook] Tipovoe
oborudovanie shakhtnogo pod'ema; spravochnik. Moskva, Ugle-
tekhizdat, 1959. 270 p. (MIRA 12:6)
(Mine hoisting--Equipment and supplies)

9.4177
24,2600

87263
S/181/62/004/005/010/055
3102/B138

Konozenko, I. D., Muzalevskiy, Ye. A., and Shakhovtsova, S.I.

AUTHORS:

TITLE:

Investigation of the generation of electrical pulses by CdSe single crystals at liquid-nitrogen temperature

ABSTRACT: Fizika tverdogo tela, v. 4, no. 5, 1962, 1132-1134

TEXT: It was found that CdSe single crystals to which a constant voltage of about 200 v is applied generate current pulses at nitrogen temperature. The frequency of these pulses is between 1 and 0.001 cps and depends on the illumination intensity. The sizes of the crystals used were 2.2.4, 2.5.4, and 1.2.5 mm³. They were illuminated with monochromatic light with an M-12 (IKS-12) infrared spectrometer. The photocurrent was recorded with an EM-M (EPP-M1) and P-3732 (N-3732) recorders. The pulses were observed with an E-1 (EMO-1) oscillograph and photographed with a loop oscillograph. Before the measurements the samples were kept in the dark for 10-30 min, then light was switched on and the applied voltage was raised slowly. The frequency of the observed current pulses was found to increase almost linearly with the intensity of the illumination. The Card (1/2) 2

Investigation of the generation of ...

S/181/62/004/005/010/055
B102/B138

curve $\rho(V)$ has a "shallow" minimum at ~ 300 v. When the sign of the voltage was altered, the shape, the amplitude and the frequency of the current pulses changed as shown in Fig. 5. The pulse generation could be damped and even suppressed by additional infrared illumination ($\lambda \approx 1\mu$). When the temperature of the sample was raised the pulse amplitudes became lower and the durations longer. The effect of pulse generation was observed whether the contacts were ohmic or not. There are 5 figures.

ASSOCIATION: Institut fiziki AN USSR Kiyev (Institute of Physics of the AS UkrSSR, Kiyev)

SUBMITTED: December 11, 1961

Legend to Fig. 5: (1) V direct, (2) V back.

Card 2/3 2

24.5600
9.4200

S/185/62/007/003/015/015
D299/D301

AUTHORS: Kononzenko, I.D., Muzalevs'ky, Ye.A. and Shakhovtsova, S.I.

TITLE: Crystal generator of infra-low frequency pulses

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 3, 1962, 338

TEXT: In studying the photoelectric properties of CdSe single crystals at liquid-nitrogen temperature, the authors observed that a photocurrent was generated by these crystals. First investigations showed that the observed effect differed considerably from that observed by Ye.A. Sal'kov and H.A. Fedorus (Ref.1: Fotoelektricheskiye i opticheskiye yavleniya v poluprovodnikakh, Kiyev, Izd-vo AS UkrSSR, 1959). It could be of great practical value. It was established that the frequency of the current pulses depend on the intensity L of illumination of the crystal, varying between 1 and 0.001 cycles. The generation of the photocurrent may stop if a voltage below 160 volts is applied, or if the intensity of illumination is high. The maximum

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Crystal generator of infra-low ...

S/165/62/007/003/015/015
D299/D301

current-intensity is 0.1 amp., at a voltage of 170-200 volts. The high stability of the frequency of pulse generation at constant illumination, the fairly high current-amplitude, and the possibility of fixing the frequency according to the intensity of illumination, permit development of a crystal generator of infra-low frequency pulses. Such a generator, operating at low temperatures, could be widely used in modern low-temperature techniques. Its use as a photon counter is not excluded. There are 1 figure and 1 Soviet-bloc reference.

ASSOCIATION: Instytut fizyky AN URSR (Institute of Physics of the AS Ukr RSR), Kyiv

SUBMITTED: December 1, 1961

[Abstractor's note: Complete translation.]

Card 2/2

L 23940-65 EWT(m)/EWP(b)/T/EWP(t) IJP(c) JD

ACCESSION NR: AP5003449

S/0181/65/007/001/0278/0279

AUTHOR: Shakhovtsova, S. I.; Konozenko, I. D.; Mazalevskiy, Ye. A.

TITLE: On the generation of current pulses by CdS single crystals

SOURCE: Fizika tverdogo tela, v. 7, no. 1, 1965, 278-279

TOPIC TAGS: cadmium sulfide, photoelectric effect, photoelectricity, electric pulse

ABSTRACT: Samples of cadmium sulfide single crystals were shown to generate current pulses if exposed briefly to monochromatic or white light or to gamma radiation. The phenomenon was observed at temperatures of 330—270K (for some samples down to 77.3K), and the range of frequencies generated was from 0.2 to 0.05 cycles per second. The voltages measured on the samples corresponded to certain intervals of the illumination intensity. A sufficiently strong complementary illumination caused the phenomenon to disappear. The experiments were a followup to earlier experiments (I. D. Konozenko, Ye. A. Mazalevskiy, S. I. Shakhovtsova, FTT, 4, 1133, 1962; V. L. Vinetskiy, I. D. Konozenko, S. I. Shakhovtsova, FTT, 5, 2698, 1963), in which

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L 23940-65

ACCESSION NR: AP5003449

the generation of similar pulses was observed in cadmium selenide.
Orig. art. has: 2 figures.

[ZL]

ASSOCIATION: Institut fiziki AN UkrSSR, Kiev (Institute of Physics,
AN UkrSSR)

SUBMITTED: 23Jul64

ENCL: 00

SUB CODE: SS

NO REF SOV: 003

OTHER: 000

ATD PRESS: 3176

Card 2/2

L 18433-66 EWT(1)/T IJP(c) GG

ACC NR: AP6007796

SOURCE CODE: 35/66/011/002/0171/0176

AUTHOR: Konozenko, I. D.; Muzalevs'kyy, Ye. O. — Muzalevskiy, Ye. .; Rovna, A. I. — Rovnaya, A. I.; Galushka, O. P. — Galushka, A. P.; Shmatko, H. H. — Shmatko, G. G.; Nikolayeva, L. H. — Nikolayeva, L. G.

ORG: Institute of Physics, AN URSR, Kiev (Instytut fizyky AN URSR)

TITLE: Preparation of single CdS crystals and their structural and physical properties

SOURCE: Ukrayins'skyy fizychnyy zhurnal, v. 11, no. 2, 1966, 171-176

TOPIC TAGS: single crystal, crystal lattice, crystal property, x ray analysis, photoconductivity, crystal lattice defect

ABSTRACT: A procedure for obtaining large single crystals of CdS by the zone sublimation method is described. X-ray investigations of the defects in the structure of these crystals were carried out. It was shown that they are more perfect than those previously obtained (I. D. Konozenko, V. I. Ust'yanov, same source, v. 5, no. 5, 1960). The electrophysical properties were analyzed and the existence of a wide photoconductivity maximum was found. The depth of bedding and of trapping level concentrations were determined. On the basis of these investigations, it is possible to obtain purer single crystals of the A_2B_6 type compounds with an improved lattice by perfecting the technology. Orig. art. has: 6 figures. [Based on author's abstract.]

Card 1/2

L 18433-66

ACC NR: AP6007796

SUB CODE: 20

SUBM DATE: 14Mar65/ ORIG REF: 004/ OTH REF: 006/

FW
Card 2/2

BRZOWSKI, Zdzislaw; JACKIEWICZ, Alodia; MUZALEWSKI, Feliks; STEFANSKI, Tadeusz; SZCZEPKOWSKA, Teresa

The obtaining of 3-sulfanilamido-6-methoxypyridazine. Rocz chemii
34 no.1:299-301 '60. (EEAI 10:9)

1. Laboratorium Badawcze Starogardzkich Zakl. Farmaceutycznych,
Starogard Gdanski.

(Methoxypyridazinylsulfanilamide)

POLAND

MUZALEWSKI, Feliks

Dept. of Organic Chemistry, Higher Normal School (Katedra Chemii
Organicznej Wyższej Szkoły Pedagogicznej), Gdansk

Wroclaw, Wiadomosci chemiczne, No 2, February 1966, pp 128-131

"On the reactivity of the amino group of sulfanilamides."
(doctoral thesis)

MUZAL'KOV 400 271

127-58-6-19/25

AUTHOR: Muzal'kov, M.I., Chief Mining Surveyor of the Sadon Administration of Mines

TITLE: The Geodetic Basis for the Sinking of Mine Shafts by Opposite Ends (Geodezicheskoye obosnovaniye prokhodki shakhtnykh stvolov vstrechnymi zaboyami)

PERIODICAL: Gornyy Zhurnal, 1958, Nr 6, pp 68-73 (USSR)

ABSTRACT: The author describes the use of geodetic instruments and calculations to help the sinking of shafts by opposite ends with an admissible error of 1 : 300,000. Both ends of the shaft met with no error. He finds that the excellent results achieved in different cases of shaft-sinking with the application of geodetic methods, entirely compensated for the loss of time involved in the preliminary geodetic work.
There are 7 figures and 1 table.

ASSOCIATION: Sadonskoye rudoupravleniye (Sadon Administration of Mines)

AVAILABLE: Library of Congress

Card 1/1 1. Geology 2. Shafts-Instrumentation

30V/127-59-4-5/27

18

AUTHORS: Kabisov, Kh.G. and Muzal'kov, M.I., Mining Engineers

TITLE: The Stopping of Protecting Blocks in the Mines.
(Otrabotka shakhtnykh okhrannykh tselikov.)

PERIODICAL: Gornyy zhurnal, 1959, Nr 4, pp 32-35 (USSR)

ABSTRACT: The losses of ore left in the protecting blocks cut down the production figures of mines. On the other hand the eventual extraction of ore from these blocks involved large expenses and extensive preparatory operations. The authors proposed a new method consisting of the gradual replacement of the natural protecting block by an artificial one. The method was tried out at the Zgid polymetallic mine of the Sadon Mining Management, and was found to be reliable, comparatively inexpensive and secure. In this particular case, it was found that after the sinking of the main

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SOV/127-59-4-5/27

The Stopping of Protecting Blocks in the Mines.

shaft, the vein formed a part of the protecting block. The method consisted in extracting horizontal layers and gradually filling in the empty space with rocks, and pouring a concrete mixture over them. (Figure 3). The method is described in detail. Such replacement of only one block gave an economy of 800,000 rubles without counting the value of the extracted ore. There are 2 sets of diagrams and 1 profile.

ASSOCIATION: Sadonskoye rudoupravleniye. (The Sadon Mining Management).

Card 2/2

MUZAL'KOV, M.I.

Surface shifting in mining steeply dipping veins. Gor. zhur.
no.4:67-70 Ap '60. (MIRA 14:6)

1. Glavnyy marksheyder Sadonskogo rudoupravleniya.
(Mining geology)
(Subsidences (Earth movements))

MUZAL'KOV, M.I.; KULYASHOV, F.M.; LUGANSKIY, Ye.A.

Underground parallaxic traverse measurements with a permanent
base rod. Gor.zhur. no.9:52-55 S '60. (MIRA 13:9)

1. Zadonskoye rudoupravleniye, poselok Mizur Severo-Osetinsloy
ASSR.

(Mine surveying)

MUZAL'KOV, Mikhail Ivanovich; BELIAYEV, B.I., *otv. red.*; SLAVOROSOV,
A.Kh., *red. izd-va*; IL'INSKAYA, G.M., *tekhn. red.*

[Mine surveying operations in shaft sinking by means of work-
ings which meet] Marksheidersko-geodesicheskie raboty pri
prokhodke i uglubke shakhtnykh stvolov vstrechnymi zaboiami.
Moskva, Gosgortekhnizdat, 1963. 186 p. (MIRA 1649)
(Mine surveying) (Shaft sinking)

SINDAROVSKIY, N.S.; SHPITAL'NIKOV, A.G., kand. ekonom. nauk;
MUZAL'KOV, M.I.

Quality of nonferrous metal ores and the profitability
of production (discussion of the article by B.F. Novozhilov).
Gor. zhur. no.10:17-22 0 '63. (MIRA 16:11)

1. Glavnyy inzh. Gosudarstvennogo instituta proyektirovaniya
predpriyatiy promyshlennosti tsvetnykh metallov (for
Sindarovskiy). 2. Glavnyy ekonomist Gosudarstvennogo
instituta proyektirovaniya predpriyatiy promyshlennosti
tsvetnykh metallov (for Shpital'nikov). 3. Glavnyy marksheyder
Sadonskogo rudoupravleniya (for Muzal'kov).

BUTIN, V.I., inzhener; MUZAL'KOV, S.S., inzhener.

New design of an induction oil heater. Elek.sta. 24 no.10:57 0 '53.
(MIRA 6:10)
(Induction heating)

MUZAVOVA, N.I., aspirant

Roentgenological image of the isthmus and cervix uteri in
sterile women. Ped. Akush. i gin. 24 no.6:40-42 '62.
(MIRA 17:4)

1. Otdeleniye neoperativnoy ginekologii (zav. - prof. Ye.P.
Mayzel' [I.E.P. Maizel']) Instituta akusherstva i ginekologii
AMN SSSR (direktor - prof. M.A. Petrov-Maslakov).

MUZDEKA, Gojko (Eng.)

"Problem of the highest temperature in the regulations for construction of overhead lines"

SO: ELEKTROPRIVREDA, May - June 1955

MIJZEKA, G.

Economic density of electric current in overhead lines. p. 1

ELEKTROPRIVREMA. Beograd, Vol. 9, No. 1, Jan. 1956

SO: EEAL, Vol. 5, No. 7 July 1956

KOVAC, Bela, dipl. tehn., saradnik (Beograd, Vjekoslava Kovaca 8); ~~STAZERA~~,
Slobodan, inz., saradnik; SOBAJIC, Miodrag, inz., saradnik

Geiger-Müller counters as switching elements in the coincidence and
anticoincidence circuits. Tehnika Jug 49 no.6: Supplement: radioizotopi
zrac 3 no.6:1015-1016 Je '64.

L 04136-67

ACC NR: AP6020193

(A)

SOURCE CODE: YU/0009/65/000/006/0581/0591

AUTHOR: Muzdeka, Svetolik (Colonel)

ORG: none

TITLE: Special features of the organization of nuclear actions

SOURCE: Vazduhoplovni glasnik, no. 6, 1965, 581-591

TOPIC TAGS: nuclear warfare, nuclear weapon delivery, air force organization, tactical warfare

ABSTRACT: The author discusses the general characteristic features of the organization of nuclear actions, general protective measures (navigational, meteorological, air defense measures, etc.), the special character of planning several simultaneous nuclear thrusts, and the organization of single nuclear strikes. It is concluded that each nuclear strike must be planned separately according to the prevailing situation. Simultaneous use of several nuclear devices requires the organization of fighting forces at the highest level of air command. Various protective measures are of paramount importance. Any nuclear mission must be carefully and continuously observed. During nuclear strikes sufficient means and forces should be kept in reserve. The choice of the location of the reserve nuclear carrier and its degree of readiness

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L 04136-67

ACC NR: AP6020193

depends on the number of strikes and other tactical and technological considerations. The transfer of existing nuclear carriers within the available network of airports and their protection is one of the main conditions for the safe and successful execution of nuclear strikes.

SUB CODE: 05,15/ SUBM DATE: none

Card 2/2

hh

MUŽDEKA, S.D.

Device for measuring pulse spectra. Slohodin D. Muždeka (Inst. Nuclear Sci. "Boris Kidrich", Belgrade). Bull. Inst. Nuclear Sci. "Boris Kidrich" (Belgrade) 3, No. 40, 76-81 (1953); cf. C.A. 41, 5385f; 48, 3153f. — EF50 and 6AK5 tubes were chosen as input tubes. Automatic photographic registration was entered in such a manner that an exponential, instead of a linear, time base was applied to the horizontal plates and exposure was made directly on the film without the aid of an optical wedge. A 50-channel pulse analyzer was used to compare spectra obtained by the photographic method. (P. M. Boreli, *ibid.* No. 41, 83-83). The pulse, proportional to the energy of the particle, is amplified by a linear amplifier and is registered by a magnetic or a cathode-ray oscillograph. The photographic film is exposed to lengthened signal pulses, which are displayed repeatedly on the face of a cathode-ray oscillograph.

C. J. O'Brien

LL
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MUZDRAKOV, G.

Muzdrakov, G. My experience in developing forest shelter belts. p.31.

Vol. 10, no. 10, Oct. 1955 KOOPELATIVNO ZEMELIE Sofiya, Bulgaria

SO: Monthly List of East European Accessions, (LEAL), LC, Vol. 5, No. 2
February, 1956

MUZDRAKOV, G. - Gorsko Stopanstvo

Experiment with trimming amorphous trees in shelter belts. p. 185
(GORSKO STOPANSTVO Vol. 11, No. 4, Apr. 1955)

SO: Monthly list of East European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955, Uncl.

VOLCKO, J.; MUZELAK, R.; IVAN, J.; MELICH, O.; KUBLA, V.; TUREKIN, Et.

Obstetrical surgery in maternity homes in the region of eastern Slovakia and its relation to perinatal mortality. Cesk. gynek. 29 no.6:545-549 Ag '64.

1. Gyn.-por. klin. Lek. fak. University P.J. Safarik v Kosiciach (prednosta doc. dr. K. Poradovsky, M.c.).

MUZEN, PETAR

223

Muzen, Petar. Sur les bases des fonctions continues.
Acad. Serbe. Bull. Acad. Sci. Mat. Nat. A. no. 5, 65-70
(1939).

The author states conditions under which a sequence of
functions of the form

$$\int \psi_k(\lambda) \varphi(x, \lambda) d\gamma(\lambda), \quad k=1, 2, \dots,$$

spans the space of continuous functions. Proofs are omitted
but some examples are obtained by specialization.

R. P. Boas, Jr. (Providence, R. I.)

(Handwritten initials)

Source: Mathematical Reviews,

Vol 11 No. 3

TAMAYEV, I.V., MUZETSKAYA, I.B., YENOGANDOV, A.D.

Chemistry, Analytic

Physico-chemical analysis of systems which are significant in analytical chemistry.
Zhur.anal.khim., 7, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, APRIL 1952 ~~1953~~, Uncl.

MUZEVIC, M., inz.

Organization of serial production with regard to technical documentation.
Strojarstvo 4 no.9/10:145-148 '62.

S/101/60/000/004/005/005
A051/A129

AUTHOR: Muzeymnek, Yu. A.
TITLE: The replacement of anti-slipping roller bearings of rotating
furnaces by anti-friction bearings
PERIODICAL: Tsement, no. 4, 1960, 27-28

TEXT: An outline is given of some of the theoretical foundations for the expediency of replacing anti-slipping bearings in roller-type supports of rotating furnaces by anti-friction bearings and some of the demands placed on the latter are listed. The author points out that in designing the supports of rotating furnaces the body should be regarded as a statically-undefinable multi-stand beam, which can transmit its weight to supports in quite a non-uniform manner due to various weights of a linear unit in the body. During the functioning of the furnace the weights can be redistributed on the supports. The main advantages of the anti-slipping bearings are listed as being the ability of such supports to withstand substantial overloads and a high temperature of lubrication. Anti-friction bearings would not be advisable, according to the author, if the latter are located in the

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S/101/60/000/004/005/005
A051/A129

✓

The replacement of anti-slipping...

supporting roller where the load can exceed 200 - 500 tons and a radial load on each bearing of 80 - 200 t. The axial component of the load on the bearing can reach values close to that of the radial one. It is pointed out that the construction of rotating furnace supports using the anti-friction bearings is difficult to realize, unless a high supply of stability is allowed for. Two conditions must be taken into account when constructing the supports of the rotating furnaces with anti-friction bearings: 1) constant checking of the load on the support, 2) calculating the bearings for receiving both radial and axial loads, making allowance for the fact that the magnitude of the axial load can come close to that of the radial one. The author states that the load check can be carried out by tensiometric methods, using ordinary tension pickups of resistance and a proportional relationship between the tension in the walls of the body and the load on the support. It is stressed that the assembly of the resistance tension pickups should be conducted in places of the supporting body not subjected to axial loads, in order to decrease the discrepancies in measuring the values under control. It is suggested to mount two tension pickups on one arm of the bridge scheme being assembled. The calibration of the bridge scheme of the tension

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S/101/60/000/004/005/005
A051/A129

The replacement of anti-slipping...


pickups can be carried out using hydro-jacks, usually applied in assembling and disassembling the supports. The author states that a check of the load on the supports would facilitate the correct functioning of the furnace and prolong the life-span of the brick lining. Galvanometers or sensitive ammeters can be used as instruments for measuring the loads periodically on the supports. If an automatic checking is necessary, the pulses of the bridge schemes of the tension pickups must be amplified after which these can be led out to the control panel of the furnace. It is pointed out that the radial component of the load will function constantly, but the greater axial component only for shorter periods of time. It is impossible to design anti-friction bearings with a large stability reserve. The double-row cone-shaped bearings would have to be made with a large contact angle, but even in this case the rows of rollers in one bearing would function with a significantly non-uniform load: one row would accept the greater part of the radial load and the entire axial load. It is suggested using combined bearings in the supports, each of which would consist of a radial and an axial bearing. A cylindrical roller bearing with short rollers could be used as the radial bearing. As the supporting bearing a thrust anti-slipping collar should be used similar to the type widely used to-day in anti-

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The replacement of anti-slipping...

S/101/60/000/004/005/005
A051/A129

slipping bearings. It is suggested that this type of support would be highly effective, since the duration of the action of the axial load in a correctly-regulated movement of the furnace would be only a small percent of the general time balance in the work of the support.



Card 4/4

MUZGIN, S.S.

Comparative evaluation of existing formulas for the impact efficiency
of percussion machines. Izv.AN Kazakh.SSR.Ser.gor.dela,met.i
stroimat. no.1:79-82 '52. (MLRA 9:8)
(Mining machinery) (Impact)

MUZGIN, S.S.

MUZGIN, S.S.

Using the DorNII impact testing machine to evaluate rock breaking strength. Trudy Inst. gor. dela AN Kazakh. SSR 1:77-82 '56.
(Rocks--Testing) (MIRA 11:1)

MUZGIN, S.S.

Ways to mechanize and automatize the operations involved in
borehole drilling. Izv. AN Kazakh. SSR. Ser. gor. dela, met. i
stroimat. no. 11:51-63 '56. (MLRA 10:1)
(Boring machinery) (Automatic control)

SHARIPOV, V.Sh., ~~MUZGIN~~ S.S.

Use of trackless haulage at the Dzhezkazgan Mine. Izv. AN Kazakh.
SSR. Ser. gor. dela, met. i stroimat. no. 11:118-122 '56.

(MIRA 10:1)

(Dzhezkazgan--Mine haulage)

MUZGIN, S.S.
SHARIPOV, V.Sh.; MUSIN, A.Ch.; MUZGIN, S.S.; LYSENKO, I.Z.; RADCHENKO, G.A.;
TRET'YAKOV, A.M.

Improvements in the technology of ore mining in Dzhezkazgan. Trudy
Inst. gor. dela AN Kazakh. SSR 2:24-43 '57. (MIRA 10:12)
(Dzhezkazgan--Mining engineering)

MUZGIN, S.S.; ARTAMONOVSKIY, O.Yu.

Loading equipment for the Dzhezkazgan mine. Isv. AN Kazakh. SSR.
Ser. gor. dela, met., stroi. i stroimat. no.2:100-108 '57.
(Mining machinery) (Ore handling) (MLRA 10:9)

MUZGIN, S.S.

MUZGIN, S.S.

Theory of breaking frozen ground. Trudy Inst. gor. dela AN Kazakh.
SSR 2:124-136 '57. (MIRA 10:12)
(Frozen ground) (Earthwork--Cold weather conditions)

AUTHOR: Muzgin, S.S. (Engineer)

100-4-9/16

TITLE: On the publication by V.A. Cherkashin, Cand.Tech.Sci.,
"The Working of Clay and Sand Pits During the Winter".
(O broshyure Kand.Tekhn.Nauk. V.A. Cherkashina).

PERIODICAL: "Mekhanizatsiya Stroitel'stva" (Mechanisation of
Construction), 1957, Vol.14, No.4, pp.23-24 (USSR).

ABSTRACT: This booklet was published by "Gosudarstvennoye Izdatel'stvo Literatury Po Stroitel'stvu I Arkhitekture" in 1955. The author discusses the chapter, "The Digging and Breaking Up of Frozen Clay and Sand by Excavators with Specially Adapted Buckets". This experimental bucket is provided with spikes to break up the material by impact which is effected by a pneumatic hammer OMQT-5. Investigations were carried out by A.N. Zelenin who showed that the 2-3 kg/m impact onto the spikes of the bucket is not sufficiently strong for an efficient breaking up process. Diagram No.1 shows the relation between the effective breaking up and various magnitudes of impact. The excavator was tested on light clay (14% moisture content) at a temperature of -4°C. An impact of 10 kg/m was found to be effective. But for this impact the construction of the bucket had to be strengthened. Diagram 2 illustrates the effect of the impact of

1/2

On the publication by V.A. Cherkashin, Cand.Tech.Sci.,
"The Working of Clay and Sand Pits During the Winter". (Cont.)

100-4-9/16
the spikes on the frozen ground, the spikes being placed
at different distances (c/c). When the spikes are 15 to
20 cm apart a direct impact of 5000 to 7000 (weight behind
the impact) is required to eliminate ridges between the
points of direct impact. This applies to frozen clay with
18-19% of moisture worked with a bucket of 0.5 m³ capacity.
2/2 When the spacing of the spikes lies between 10 to 12 cm no
ridges of frozen clay are left between the impact points.

There are 2 diagrams.

AVAILABLE:

MUZGIN, S.S.; ARTAMONOVSKIY, O.Yu.

Bulldozer for underground mining. Izv. AN Kazakh. SSR. Ser. gor
dela no.2:100-105 '58. (MIRA 12:10)
(Mining engineering) (Bulldozers)

MUZGIN, S.S., kand. tekhn. nauk

Transportation machines for operating in a complex with underground excavators. Gor. zhur. no.7:41-42 J1 '64. (MIRA 17:10)

1. Institut gornogo dela AN KazSSR.

MUZGIN, S.S.

Desintegration of frozen grounds by force of impact. Trudy Inst.
gor. dela AN Kazakh. SSR no.3:107-119 '58. (MIRA 11:6)
(Frozen ground)
(Mine tools)

SHARIPOV, Vakhit Sharipovich, kand.tekhn.nauk; KUNTUKOV, Yuriy Grigor'yevich, inzh.; MUZGIN, Sergey Spiridonovich, kand.tekhn.nauk; TKACHENKO, Arsen Mikhaylovich; TRET'YAKOV, Aleksey Mikhaylovich, inzh.; SHCHERBAK, Georgiy Sergeyevich, inzh.; TARASOV, L.Ya., red.; PARTSEVSKIY, V.N., red.izd-va; ATTOPOVICH, M.K., tekhn.red.

[Hole drilling equipment] Karetki i agregaty dlia bureniia shpurov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i svetloi metallurgii, 1959. 134 p. (MIRA 12:4)

1. Institut gornogo dela AN KazSSR (for all except Tarasov, Partsevskiy, Attapovich). (Boring machinery)

SCV/127-59-1-18/26

AUTHORS: Bupezhanov, M. K., Director, and Shapirov, V. Sh., and
Muzgin, S. S., Candidates of Technical Sciences

TITLE: Rail-less Machines for Mining Faces in the Dzhezkazgan
Mine (Bezrel'sovyye zaboynnye mashiny na Dzhezkazganskoye
rudnike)

PERIODICAL: Gornyy zhurnal 1959, Nr 1, pp 60-63 (USSR)

ABSTRACT: The State Scientific-Technical Committee at the Council of
Ministers of the Kazakh SSR, the Karaganda State Council of
the National Economy, the Institute of Mining Engineering of
the AS Kazakh SSR and the Kazakh Scientific-Technical Society
of Non Ferrous Metals organized a conference during 1958.
The introduction of new underground technology in the
Dzhezkazgan Mines was the object of special attention during
this conference. The introduction of the following rail-
less mining equipment was recommended: a self-propelled,
2-4 drill drilling rig; a rig for drilling blast holes of
60-70 mm diameter; a straight shovel excavator, provided
with telescopic device and a 0.8 - 1.00 cu m bucket; self-
propelled griper; 5-10 ton capacity trolley- and diesel

Card 1/2

SOV/127-59-1-18/26

* Rail-less Machines for Mining Faces in the Dzhezkazgan Mine

type dump trucks; 10-20 ton capacity self-propelled cars; self-propelled scaffold for checking of the ceilings, prop assemblies. Trial operation of a mining section, furnished with the above mentioned machinery was demonstrated to the members of the conference. Technical data on the described machinery is given. There are 4 photos, 1 diagram and 2 Soviet references.

ASSOCIATION: Dzhezkazganskoye rudoupravleniye (The Dzhezkazgan Mining Management) (IGD AN Kaz SSR) (The IGD AS Kazakh SSR), Alma-Ata

Card 2/2

MUZGIN, S.S.; BYUYRIN, A.I.

Ore loading for trackless haulage in thin sections of the
Dzhezkazgan deposit. Izv. AN Kazakh. SSR. Ser. ger. dela no.1:
90-96 '59. (MIRA 12:9)

(Dzhezkazgan--Ore handling)

MUZGIN, S.S.

Engineer V.M.Fedorov's theory on rock crumbling. Izv.AN
Kazakh.SSR, Ser.gor.dela no.2:78-83 '59. (MIRA 13:4)
(Rocks) (Mining engineering)

S/123/61/000/020/033/035
A004/A101

AUTHORS: Muzgin, S. S., Artamonovskiy, O. Yu.

TITLE: On an expedient type of underground bulldozer

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 20, 1961, 4, abstract
20Ts38 ("Izv. AN KazSSR. Ser. gorn. dela", 1960, no. 1 [12], 59-64,
Kazakh summary)

TEXT: The authors describe the БП-1 (BP-1) underground bulldozer (for road levelling, cleaning the floor of mine workings, etc.) with hydraulic frame, developed by the Institute of Mining, AS KazSSR, and the Chelyabinskiy zavod dorozhnykh mashin im. Kolyushchenko (Chelyabinsk Plant of Road Machinery) on the base of the С-100 ГП (S-100 GP) tractor. The BP-1 bulldozer can be powered either by a diesel engine or an electromotor. Bulldozers with diesel drive should be equipped with a scrubber of the catalytic type or a scrubber for the wet cleaning of exhaust gas. For operation in dead faces an electric drive is necessary. The weight of the bulldozer with tractor amounts to 14 tons, the length is 5,450 mm, width - 3,250 mm, height - 3,120 mm; power of diesel engine

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S/123/61/000/020/033/035
A004/A101

On an expedient type of underground bulldozer

- 90 HP, electric drive - 55 kw. It is pointed out that for the haulage of ore, the БП -2 (BP-2) bulldozer has been designed with a horseshoe moldboard. For small-scale work the BP-1 bulldozer can be fitted with a moldboard of the BP-2 type. ✓

I. Faybisovich

[Abstracter's note: Complete translation]

Card 2/2

SHARIPOV, V.Sh., kand.tekhn.nauk; MUZGIN, S.S., kand.tekhn.nauk; BUPEZHANOV, M.K.

Experimental use of trackless, self-propelled machinery in the .
Szheskazgan Mine. Gor.zhur. no.3:41-44 Mr '60. (MIRA 14:5)

1. Institut gornogo dela AN KazSSR (for Sharipov, Muzgin).
2. Direktor Dzhezkazganskogo rudouprovleniya (for Bupezhanov)
(Dzhezkazgan region—Mining machinery)

MUZGIN, S.S.; ARTAMONOVSKIY, O.Yu.

Trailing cable reeling device on self-propelled mining machines.

Trudy Inst. gor. dela AN Kazakh SSR 4:115-125 '60.

(MIRA 13:9)

(Mining machinery--Electric driving)

MUZGIN, S. S.

Self-propelled machines for the delivery of lumpy ore. Trudy
Inst. gor. dela AN Kazakh. SSR 5:119-131 '60.

(MIRA 13:8)

(Mine haulage--Equipment and supplies)
(Ore handling)

MUZGIN, S.S.

Excavator loading at the Dzhezkazgan mines. Trudy Inst. gor.
dela AN kazakh. SSR 7:110-121 '60. (MIRA 14:6)
(Dzhezkazgan region--Ore handling)
(Excavating machinery)

SHARIPOV, Vakhit Sharipovich; MUZGIN, Sergey Spiridonovich; BUPEZHANOV, Mukhit Kuldzhanovich; KRACHENKO, Artem Mikhaylovich; ARTAMONOVSKIY, Oleg Yur'yevich; KULAKOV, Arkadiy Yakovlevich, Prinimali uchastiye: KAZYBEKOV, D.M.; IBRAYEV, Sh.I.; ISTOMIN, S.H., otv.red.; GEYMAN, L.M., red.izd-va; SIPYAGINA, Z.A., red.izd-va; SAL'TSOVSKIY, M.S., red.izd-va; MAKSIMOVA, V.V., tekhn. red.

[Self-propelled machines for underground workings of ore deposits] Samokhodnye mashiny dlia podzemnoi razrabotki rudnykh mestorozhdenii.

By V.Sh.Sharipov i dr. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu, 1961. 258 p.

(MIRA 14:12)

(Mining machinery)

KOZLO, V.K.; MUZGIN, S.S.

Choice of a drive for an underground excavator. Izv. AN Kazakh.
SSR. Ser. gor. del. no.1 54-63 61. (MIRA 15:2
(excavating machinery)

BYUYRIN, A.I.; MUZGIN, S.S.

Effect of oversized pieces of ore on the productivity of an
excavator in underground mining. Trudy Inst.gor.dela AN Kazakh.
SSR 8:87-91 '61. (MIRA 15:4)
(Excavating machinery)

ARTAMONOVSKIY, O.Yu., inzh.; MUZGIN, S.S., inzh.

Bulldozer's moldboard for moving rocks. Stroitel'stvo. 7
no.2:20 F '62. (MIRA 15:5)
(Bulldozers)

ARTAMONOVSKIY, O.Yu.; MUZGIN, S.S.

Linear stability of underground bulldozers. Trudy Inst.gor.dela
AN Kazakh.SSR 9:163-170 '62. (MIRA 15:8)
(Bulldozers)

MUZGIN, S.S.

Determining the parameters of an underground excavator. Study
Inst. gor. dela AN Kazakh SSR 12:47-55 '63. (MIRA 17:8)

MUZGIN, S.S.; GEORGIYEV, Yu.F.; YUPATOV, E.V.

Testing the EP-1 underground excavator in the Dzhezkazgan Mine.
Trudy Inst. gor. dela AN Kazakh. SSSR 10:50-63 '63. (MIRA 16:8)

(Dzhezkazgan District--Excavating machinery--Testing)

MUZGIN, S.S.; GEORGIYEV, Yu.F.; YUPATOV, E.V.

Study of telescopic operating equipment of underground excavators.
Trudy Inst. gor. dela AN Kazakh. SSR 11:48-57 '63. (MIRA 16:8)

(Excavating machinery)

KUNTUKOV, Yu.G.; MUZGIN, S.S.

Changes in the true rate of boring dependent on the depth of the
boreholes in boring with a perforator with an independent rotation
of the rod bores. Izv. AN Kazakh. SSR. Ser.tekh. i khim.nauk no.3:
65-68 '64. (MIRA 17:2)

CHURCH, S.S.; ARTAMONOVSKIY, I. YU.; GEORGEV, YU.F.; YUPATOV, F.V.
CHOL, G.A.

Investigating an underground billiard loader at the
Dzhezkazgan Mine. Trub. Inst. per. dela AN Kazakh.
SSR 13:22.114.164. (MIRA 17:7)

ARTAMONOVSKIY, O.Yu., kand.tekhn.nauk; MUZGIN, S.S., kand.tekhn.nauk

Effect of a tractor suspension system on the precision control of
a bulldozer blade. Stroil. i dor. mash. 9 no.12:9-10 D '64.
(MIRA 18:3)

YAMPOL'SKIY, E.M., inzh.; MACHUL'SKIY, F.P., inzh.; MUZGIN, S.S., kand.
tekhn. nauk

Using self-propelled equipment in mines of the Novomoskovsk
Gypsum Combine. Gor. zhur. no.4:6-10 Apr '65. (MIRA 18:5)

1. Novomoskovskiy gipsovyy kombinat (for Yampol'skiy, Machul'skiy).
2. Institut gornogo dela AN Kazakhskoy SSR (for Muzygin).

MUZGIN, S.S., SHOL', O.A.

Investigating feeder cable equipment of self-propelled mining
machines. Trudy Inst. gor. dela AN Kazakh. SSR 17:93-101 '65.
(MIPA 18:9)

MUZGIN, S.S.; KUNTUKOV, Y.L.; DAVITOV, I.B.

Efficiency of the operating mechanisms of the loading equipment
in the Dzhezhazgan mine. Izv. Inst. geol. i inzh. razv. Kazan. Usp.
17:55-58 '65.

MIKA 18:1

MUZGIN, S.S.

An efficient system in the power supplying of underground trackless conveying machines in long-distance deliveries. Trudy Inst. gor. dela AN Kazakh. SSR 17:106-112 '65. (MIRA 18:9)

MUZZIN, S.S.

Prospective type of drive of railless machines for the
transportation of ore in underground workings. Trudy Inst.
gor. dela AN Kazakh. SSR 13:85-92 '64. (MIRA 17:7)

RUZGIN, S.S., GSc.

Results of the examination of self-propelled loaders and
trackless conveying equipment at the Dzhezkazganskiy Enter-
prise. Rudy 12 no.7/8:265-270 JI-Ag'64 (MIRA 17:8)

1. Institute of Mining, Academy of Sciences, Alma-Ata, U.S.S.R.

MUZGIN, V.N.; ZOLOTAVIN, V.L.; GAVRILOV, F.F.; BALAYEV, V.N.

Spectral analysis of vanadium by the vaporization method. Zav.
lab. 30 no.6:697-699 '64 (MIRA 17:8)

1. Ural'skiy politekhnicheskiy institut imeni Kirova.

PUZAKO, V.D.; MUZGIN, V.M.; VINOGRADOV, G.K.

Settling of kaolin suspensions under the effect of a flocculating agent. Izv.vys.ucheb.zav.;khim.i khim.tekh. 4 no.3:509-511 '61. (MIRA 14:10)

1. Ural'skiy politehnicheskii institut imeni Kirova, kafedra radiohimii.
(Kaolin)

ZHUKOV, A.I.; MUZGIN, V.N.

Sorption of hydrolyzed ions of the elements of the groups VII and VIII
by cation-exchanging resins. Zhur.neorg.khim. 7 no.7:1730-1735 J1 '62.
(MIRA 16;3)

1. Ural'skiy politekhnicheskii institut.
(Sorption) (Ion exchange resins)

MUZGIN, V.N.; ZOLCTAVIN, V.L.; GAVRILOV, F.F.

Chemical-spectral method for determining impurities in vanadium.
Zhur. anal. khim. 19 no. 1:111-116 '64. (MIRA 17:5)

1. Ural'skiy politekhnicheskii institut, Sverdlovsk.

L 6457-66 EWT(1)/ETC/ENG(m)/T/EWA(g) IJP(c) AT
 ACCESSION NR: AP5019853 UR/0181/65/007/008/2379/2382

AUTHOR: Muzhdaba, V. M.; Parfen'yev, R. V.; Shalyt, S. S.

TITLE: Magnetophonon oscillation of the thermoelectric power in n-InSb in a longitudinal magnetic field

SOURCE: Fizika tverdogo tela, v. 7, no. 8, 1965, 2379-2382

TOPIC TAGS: thermoelectric power, phonon, phonon interaction, indium compound, magnetoresistance, electron mobility "

ABSTRACT: This is a continuation of earlier work by the authors (FTT v. 6, 3193, 1964; ZhETF v. 47, 444, 1964) dealing with magnetophonon resonance in the thermoelectric power and magnetoresistance of n-InSb. The present article contains additional experimental results, showing how the magnetophonon resonance manifests itself in samples with various electron densities and mobilities, and covering a wider range of temperatures (5.5×10^{13} -- 3.9×10^{17} cm⁻³, 3.7×10^4 -- 7×10^5 cm²/v.sec, 68--300K). Oscillations were observed in the dependence of the magnetic thermoelectric power on the field, due to the magnetophonon resonance, in agreement with the theoretical predictions of V. L. Gurevich and Yu. A. Firsov (ZhETF v. 40, 199, 1961). The oscillations have a maximum near 200K and decrease both at lower and at higher temperatures. They also decrease with decreasing mobility at a fixed

Card 1/2

L 6457-66

ACCESSION NR: AP5019853

temperature. The concentration has a rather complex effect on the thermoelectric power. Orig. art. has: 4 figures, 2 formulas, and 1 table.

ASSOCIATION: Institut poluprovodnikov AN SSSR, Leningrad (Institute of Semiconductors AN SSSR)

SUBMITTED: 26 Feb 65

ENCL: 00

SUB CODE: NP, E1

NR REF SOV: 007

OTHER: 000

rw

Cord 2/2

ITSHEVICH, Ye.P.; MITSINBA, V.M.; SUKHILAKOV, V.I.; ZIL'BER, S.B.

Effect of hydrostatic pressure on the effective electron mass
in GaAs. Zh. fiz. tverd. mater. i teoret. fiz. 50, 111
511-519, 1965 (MIRA 1966)

1. In this paper we report on the results of the first
polarized Raman scattering experiments on GaAs. The results
published in Zh. fiz. tverd. mater. i teoret. fiz. 50, 111
511-519, 1965. Submitted October 20, 1965.

MUZHANOV, A.A. Inzhener..

Quality control in assembling trucks. Elek.1 topl.tiara no. 2-34
Ag '57.

(Car wheels)

5558

S/020/62/143/001/011/030
B104/B108

26.4317
AUTHORS:

Arifov, U. A., Academician AS Uzbekskaya SSR, Gurich, D. D.,
Mirrakhimova, Kh., and Muzhavirov, S. Z.

TITLE:

Investigation of secondary processes caused by fast neutral
atoms of alkali metals

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 143, no. 1, 1962, 69-71

TEXT: The experimental arrangement consisted of a source of fast neutral atoms and a semispherical collector (85 mm diameter) with a Ta target (10.10 mm) in its center. The working vacuum was $5 \cdot 10^{-7}$ mm Hg. The fast neutral atoms were obtained by resonance charge exchange of Na^+ ions in an Na vapor jet perpendicular to the Na^+ beam. The flux of the primary ions was measured before and after resonance charge exchange. The flux of neutral atoms was determined from this difference. According to the results, the secondary emission during interaction of fast neutral Na atoms with pure Ta targets and such covered with residual gas films is similar to the secondary emission induced by Na^+ ions interacting with Ta targets. Scattered positive ions with high energies are observed in both cases.

Card 1/2

Investigation of secondary ...

S/020/62/143/001/011/030
B104/B108

Under strictly equal conditions, the scattering coefficient of the neutral atoms is higher than that of the ions. There are 2 figures and 5 references: 4 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: H. W. Berry, J. Appl. Phys., 8, 1219 (1958).

ASSOCIATION: Institut yadernoy fiziki Akademii nauk UzSSR (Institute of Nuclear Physics of the Academy of Sciences Uzbekskaya SSR)

SUBMITTED: June 17, 1961

Card 2/2